

SDAT Functional Description

Functional Area	Function	Description	Component	Command
Program interface	Display / undisplay collection window	Toggle on/off the display of the collection window	SDAT	File->View->Collection Window
Program interface	Display / undisplay information window	Toggle on/off the display of the information window	SDAT	File->View->Information Window
Program interface	Display / undisplay status bar	Toggle on/off the display of the status bar	SDAT	File->View->Status Bar
Program interface	Display / undisplay toolbars	Toggle on/off the display of SDAT's 3D navigation / Project / Properties / Rotation Controls / Sketch Commands / Track Animation toolbars	SDAT	File->View->Toolbars
Program interface	Page setup	Select printer and page setup for printing the SDAT display	SDAT	File->Page Setup
Program interface	Print	Print screen	SDAT	File->Print
Program interface	Print preview	Display image of page before printing	SDAT	File->Print Preview
Project management	Add airspace	Add modules, fpas, sectors, nodes, focal point fixes.	SDAT	Project->Project Manager: Add Airspace
Project management	Delete airspace	Delete modules, fpas, sectors, nodes, focal point fixes	SDAT	Project->Data Sources: Delete Airspace
Project management	Add fixes and airports	Add fixes and airports.	SDAT	Project->Project Manager: Add Routing
Project management	Delete fixes and airports	Deleet fixes and airports	SDAT	Project->Data Sources: Delete Routing
Project management	Add Maps	Add maps	SDAT	Project->Project Manager: Add Maps
Project management	Delete Maps	Delete maps	SDAT	Project->Data Source: Delete Maps
Project management	Add routes	Add victor, jet, coded, procedure, and other routes.	SDAT	Project->Project Manager: Add Routing
Project management	Delete routes	Delete victor, jet, coded, procedure, and other routes	SDAT	Project->Data Source: Delete Routing
Project management	Add Sketches	Add sketches	SDAT	Project->Project Manager: Add Sketch
Project management	Delete sketches	Delete sketches	SDAT	Project->Data Source: Delete Sketch
Project management	Add traffic	Add flight tracks and flight plans.	SDAT	Project->Project Manager: Add Traffic
Project management	Delete traffic	Delete flight tracks and flight plans	SDAT	Project->Data Source: Delete Traffic
Project management	Adjust collection query results	Use wizard to include/exclude objects in the results of a query	SDAT	Collection property window: Collection wizard
Project management	Create new collection	Create new airspace / traffic / route / fix or sketch collection	SDAT	Collections->New
Project management	Create new project	Create a new, empty SDAT project	SDAT	File->New Project
Project management	Create new sketch collection	Create a new, empty sketch collection	SDAT	New sketch collection icon

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Project management	Display project properties	Display the name, date, description, location, phase and inputs of the project	SDAT	File->Project->Project Properties
Project management	Group collection query results	Put the collection query results into groups based on a user-selected attribute and an optional range	SDAT	Collection property window: Collection wizard
Project management	Open project	Open an existing SDAT project	SDAT	File->Open Project
Project management	Query on collection	Use wizard to create queries to identify objects to include / exclude in collection	SDAT	Collection property window: Collection wizard
Project management	Save files	Save airspace, traffic, routing, sketch, or map files	SDAT	Data Sources->Save
Project management	Save project	Save an open SDAT project under its current name	SDAT	File->Save Project
Project management	Save project as	Save an open SDAT project under a new name	SDAT	File->Save Project As
Project management	Set active flight plan	Set the active flight plan for a traffic collection. Choose from scheduled, first filed, last filed, and final amended	SDAT	Data Sources->Traffic->Properties tab: Preferences->Active flight plan
Project management	Dysim flights	Toggle display and analysis of Dysim flights	SDAT	Data Sources->Traffic->Properties tab: Preferences->Dysim flights
Project management	Flights that flew	Toggle display and analysis of flights that did not fly	SDAT	Data Sources->Traffic->Properties tab: Preferences->Flights that flew
Project management	Display Metadata	Display metadata for airspace, traffic, routing, map, and sketch files	SDAT	Data Sources->Property: Metadata tab
Project management	Individual flight plan preferences	Toggle override of individual flight plan preferences	SDAT	Data Sources->Traffic->Properties tab: Preferences->Individual flight plans
Visualization	Animate traffic	Animate flight tracks. Shows a continuously updated picture of the evolution of air traffic over time. Aircraft positions are represented with triangle or airplane icons, and the tracks they have traced out are displayed as lines.	SDAT	Play traffic animation icon
Visualization	Animation options	Change start time and time multiplication factor for track animation	SDAT	Tools->Track Animation->Animation Options
Visualization	Camera properties	Set camera projection, origin, scale, rotation, and translation by entering numeric values	SDAT	Camera icon
Visualization	Center selected object	Center display on selected object	SDAT	Information window: Center button
Visualization	Collection properties	Bring up properties of selected collection	SDAT	Collections window: Properties button
Visualization	Display airports	Toggle on/off display of airports	SDAT	Collection list
Visualization	Display fixes	Toggle on/off display of fixes	SDAT	Collection list
Visualization	Display FPA's	Display airspace fixed posting area boundaries	SDAT	F icon
Visualization	Display modules	Display airspace module boundaries	SDAT	M icon
Visualization	Display nodes	Display airspace node points	SDAT	N icon

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Visualization	Display routes	Toggle on/off display of routes	SDAT	Collection list
Visualization	Display sectors	Display airspace sector boundaries	SDAT	S icon
Visualization	Display tracks	Toggle on/off display of flight tracks	SDAT	Collection list
Visualization	Enable AT Vista	Enable AT Vista and map it to data that is to be displayed	SDAT	Tools->Track Animation->Animation Options
Visualization	Fill style	Change fill style between solid, front only, and back only	SDAT	Display->Fill Style
Visualization	Fly mode	Continuously rotate camera's yaw angle to provide an all-angles view of the airspace / air traffic SDAT is displaying	SDAT	Display->Fly Mode
Visualization	Geographic projections	Change the projection used in SDAT's display of lat/long data. Choose between Mercator, Gnomonic, Orthographic, and Global.	SDAT	Tools->Geographic Projections
Visualization	Point of tangency	Set point of tangency for mapping projection	SDAT	Tools->Coordinates and Projections->Point of Tangency
Visualization	Home view	Restore view to original rotation / magnification	SDAT	Home icon
Visualization	Set home view	Set home view	SDAT	View->Set default view
Visualization	Lights on/off	Toggle lights on/off setting	SDAT	Display->Lights On/Off
Visualization	Night/day mode	Toggle display from day to night setting	SDAT	Display->Night/Day
Visualization	Background color	Set background color	SDAT	View->Preferences
Visualization	Pan view	Translate the view horizontally and vertically	SDAT	Hand icon: click and drag mouse
Visualization	Parallel projection view	Change view to parallel projection	SDAT	Parallel projection icon
Visualization	Pause/Rewind/Fast Forward traffic animation	Adjust traffic animation with pause / rewind / rewind to beginning / fast forward / fast forward to end / back up to specified time	SDAT	Traffic animation icons
Visualization	Perspective view	Change to perspective view	SDAT	Perspective icon
Visualization	Rotate view	Rotate the view	SDAT	Rotate icon: click and drag mouse
Visualization	Select object	User can click on any object to highlight it. Information about the object appears in the information window.	SDAT	Pointer icon: click mouse on object
Visualization	Selected object properties	Bring up properties of selected object in information window	SDAT	Information window: Properties button
Visualization	Set group color	Change the color of all objects in a group	SDAT	Collection property window: modify groups
Visualization	Set group color ramp	Ramp colors of groups in a collection	SDAT	Collection property window: modify groups
Visualization	Set vertical scale	Set scale for display of the z-dimension	SDAT	Tools->Coordinates and Projections->Set Vertical Scale->Scaling Factor %
Visualization	Side view	Change to side-on view	SDAT	Vertical orthographic camera icon

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Visualization	Two-dimensional view	Change to two-dimensional overhead view.	SDAT	Overhead orthographic camera icon
Visualization	Vertical scale	Increase or decrease the vertical scaling	SDAT	Increase vertical scale / decrease vertical scale icons
Visualization	Window view	Zoom view to window.	SDAT	Window icon: click and drag mouse
Visualization	Display graticule	Display graticule	SDAT	View->Graticule
Visualization	Graticule grid size	Change graticule grid size	SDAT	View->Graticule->Other
Visualization	Graticule color	Change graticule color	SDAT	View->Graticule->Other
Visualization	Zoom to selected object	Zoom display to selected object	SDAT	Information window: Zoom button
Visualization	Format collection	Change display format of airspace, traffic, routing, maps, and sketches	SDAT	Project Manager
Analysis	NASR lookup	Connect to ATA100 NAS/R database and lookup information about fixes, NAVAIDS, airports, runways and routes.	SDAT	Routing property page->NASR tab
Design	Add new airport	Create a new airport. Specify name, location, magnetic variation, elevation, runways, and type	SDAT	Modify->Routing->Add Airport
Design	Add new fix	Create a new fix. Specify name, location, magnetic variation, equipment, and attributes	SDAT	Modify->Routing->Add Fix
Design	Move fix	Change fix location	SDAT	Project Manager->Routing->Properties: Fixes tab->Properties
Design	Change fix type	Change fix type. Choices are NAVAID, waypoint, intersection, facility boundary, coordination fix, adaption fix, military fix, RADAR, reporting point, turning point, other	SDAT	Project Manager->Routing->Properties: Fixes tab->Properties
Design	Remove fix	Delete fix from source	SDAT	Project Manager->Routing->Properties: Fixes tab->Properties
Design	Add new route	Create a new route. Specify name, source, description, type, active/inactive, route slots, preferential route/procedure	SDAT	Modify->Routing->Add Route
Design	Change route type	Change route type between jet, victor, other, coded, procedure, and user-defined	SDAT	Select route->Properties->Route slots
Design	Modify route	Add or remove waypoints from route	SDAT	Select route->Properties->Type
Design	Module horizontal cut	Cut module horizontally, forming two new modules.	SDAT	Modify->Airspace->Module Horizontal Cut
Design	Add NASR to project	Add a routing element from the NASR database to a project	SDAT	Routing property page->NASR tab
Design	Duplicate airspace configuration	Duplicate airspace configuration	SDAT	Data Sources->Airspace->Properties: Configuration tab->Duplicate configuration

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Design	Remove airspace configuration	Remove airspace configuration	SDAT	Data Sources->Airspace->Properties: Configuration tab->Remove configuration
Design	New airspace configuration	Add new airspace configuration	SDAT	Data Sources->Airspace->Properties: Configuration tab->New configuration
Design	Remove sectorization	Remove sector from an airspace configuration	SDAT	Data Sources->Airspace->Properties: Configuration tab->New sectorization
Design	New sectorization	Add sector to an airspace configuration	SDAT	Data Sources->Airspace->Properties: Configuration tab->Remove sectorization
Design	Remove flight from source	Remove flight from a traffic source	SDAT	Data Sources->Traffic->Properties: Flight List tab->Remove flight
Sketch	Create line	Create line using freehand mouse placement	SDAT	Line icon
Sketch	Create point	Create point using freehand mouse placement	SDAT	Draw freehand icon
Sketch	Create polygon	Create polygon using freehand mouse placement	SDAT	Polygon icon
Sketch	Altitude levels	Change altitude levels of points, lines, and polygons	SDAT	Select sketch->Information window->Properties
Help	About SDAT Enterprise	Tells user the build number and build date	SDAT	Help->About SDAT Enterprise
Program interface	Log file output	Direct log file output (none, append to existing file, overwrite existing file)	Construct	Tools->Options
Help	About SDAT Construct	Display version number and build date	Construct	Help->About
Tool/Data Interchange	Convert aces	Convert aces files to SDAT Enterprise airspace (*.air5) and route (*.route5) files.	Construct	File->Convert
Tool/Data Interchange	Convert airspace	Convert SDAT 4 *.air files to SDAT Enterprise airspace (*.air5) and route (*.route5) files.	Construct	File->Convert
Tool/Data Interchange	Convert sketch	Convert SDAT 4 *.sketch files to SDAT Enterprise sketch (*.sketch5) files.	Construct	File->Convert
Tool/Data Interchange	Convert traffic	Convert SDAT 4 *.traf files to SDAT Enterprise traffic (*.traf5) files.	Construct	File->Convert
Tool/Data Interchange	Display file properties	Display properties (e.g. file name, author, source type, creation date, description) for SDAT Enterprise files.	Construct	File->Properties
Tool/Data Interchange	Find SDAT files	Find SDAT airspace, traffic, sketch, project, route, communication and surveillance files.	Construct	Search tab: Start Search
Tool/Data Interchange	Import ETMS data	Import data from ATALab's ETMS database. Data is filtered based on user-input airport ID, begin time, and end time.	Construct	Import->Traffic
Tool/Data Interchange	Import Offload data	Import data from ATALab's Offload database. Data is filtered based on user-input airport ID, begin time, and end time.	Construct	Import->Traffic

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	Import Routing data	Import routing data from ATALab's mirror of the NASR database. Specify a region and the type of routing information desired	Construct	Import->Routing
Tool/Data Interchange	Import SDAT 4 project	Import SDAT 4 project files from an SDAT 4 machine.	Construct	Import->SDAT 4 Projects